Assessment: Course Four Column

Courses (CTE) - Industrial Millwright Tech

IT 220:Alignment Principles

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Basic theory of shaft and gear alignments - Understand the basic theory of shaft and gear alignments. **Course Outcome Status:** Active **Next Assessment:** 2019-2020 **Start Date:** 07/06/2015	**Written Test/Exam -** Written tests in classroom and practical evaluations in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Reporting Period:** 2016-2017 **Criterion Met:** Yes 10 of 12 students passed written test with 70% or better the first time. 12 of 12 passed performance evaluation the first time (09/13/2017)	**Action:** Continue with this module of training strive for a higher pass rate on written by explaining all items in lab more extensively and how they relate back to the book or written question. Lab activities were spot on with all 12 passing the first time, so continue with lab activities. (09/13/2017)
Four step method to do correct shaft alignments - Know how to use the four step method to do correct shaft alignments **Course Outcome Status:** Active **Next Assessment:** 2016-2017 **Start Date:** 09/09/2013	**Written Test/Exam -** Written tests in classroom and practical evaluations in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Reporting Period:** 2016-2017 **Criterion Met:** Yes 9 of 12 students passed written test with 70% or better the first time. 10 of 12 passed the performance evaluation the first time. While 100% is difficult to attain for National Certification the 2 who failed the first time received a 90% the first time but redid the activity 2 days later to achieve national certification. (09/13/2017)	**Action:** Continue with this module of training strive for a higher pass rate on written by explaining all items in lab more extensively and how they relate back to the book or written question. (09/13/2017)
Backlash and root clearance - Know the proper techniques to set backlash and root clearance. **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 09/13/2017	**Written Test/Exam -** Written tests in classroom and practical evaluations in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Reporting Period:** 2016-2017 **Criterion Met:** No Remove this learner outcome from this course/syllabus. I no longer teach this goal in this class it has been moved to IT 210 (09/13/2017)	**Action:** Remove this learner outcome from this course/syllabus. I no longer teach this goal in this class it has been moved to IT 210 (09/13/2017)
Know how to use equipment manuals to find and set proper	**Written Test/Exam -** Written tests in classroom and practical evaluations	**Reporting Period:** 2016-2017	**Action:** Continue teaching

Course Outcomes	Assessment Measures	Results	Actions
clearances - Know how to use equipment manuals to find and set proper clearances **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 09/13/2017	in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Criterion Met:** Yes 11 of 12 passed written exam with 705 or higher. 12 of 12 passed performance evaluations with 100% (09/13/2017)	approach the same ways because of success. Re word course outcome to be more up to date with technological advances in industry. Change to align equipment to specifications set by industry and not equipment manuals. (09/13/2017)
Know how to use dial indicators for proper shaft and gear alignments. - Know how to use dial indicators for proper shaft and gear alignments. **Course Outcome Status:** Active **Next Assessment:** 2021-2022 **Start Date:** 09/13/2017	**Written Test/Exam -** Written tests in classroom and practical evaluations in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Reporting Period:** 2016-2017 **Criterion Met:** No 8 of 12 passed written exam with 70% or higher the first time. 10 of 12 passed performance evaluation the first time for shaft alignment. (09/13/2017)	**Action:** Change this learner outcome to remove gear from wording and move it to IT210. The shaft alignment component was met but because of the wording the whole outcome was not. So change wording to reach outcome. (09/13/2017)
Laser measuring devices to establish proper alignment - Know how to use laser measuring devices to establish proper alignment **Course Outcome Status:** Active **Next Assessment:** 2016-2017 **Start Date:** 09/09/2013	**Written Test/Exam -** Written tests in classroom and practical evaluations in lab. **Criterion:** 70% or better on written tests and 100% on practical evaluations per NCCER standards	**Reporting Period:** 2016-2017 **Criterion Met:** Yes Only 3 of 12 passed written test the first time. 10 of 12 passed performance evaluation at 100% (09/13/2017)	**Action:** Spend more time lecturing in class on laser system to raise the numbers on the written test scores. Balance time better between lab and classroom to maintain pass rate in lab but increase pass rate in class. (09/13/2017) **Follow-Up:** I have added a project to this class starting in Spring of 2015 where students must make and align a pump and motor assigned to their group, basically from scratch. They have to incorporate skills they learned throughout the year in the program. Students have responded well to this project and it has added value to the class and program in my opinion (Spring 2017). (09/13/2017)